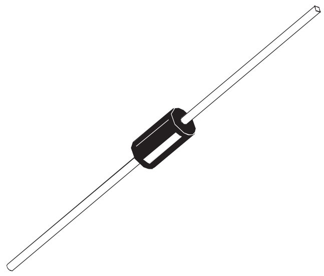
1N6263

SMALL SIGNAL SCHOTTKY DIODE

DESCRIPTION

Metal to silicon junction diode featuring high breakdown, low turn-on voltage and ultrafast switching.

Primarily intended for high level UHF/VHF detection and pulse application with broad dynamic range.



DO-35

ABSOLUTE RATINGS (limiting values)

Symbol	Parameter		Value	Unit
V_{RRM}	Repetitive Peak Reverse Voltage		60	V
I_F	Forward Continuous Current*	$T_a = 25°C$	15	mA
I_{FSM}	Surge non Repetitive Forward Current*	$t_p \leq 1s$	50	mA
T_{stg} T_j	Storage and Junction Temperature Range		- 65 to 200 - 65 to 200	°C
T_L	Maximum Lead Temperature for Soldering during 10s at 4mm from Case		230	°C

THERMAL RESISTANCE

Symbol	Test Conditions	Value	Unit
$R_{th(j-a)}$	Junction-ambient*	400	°C/W

ELECTRICAL CHARACTERISTICS

STATIC CHARACTERISTICS

Symbol	Test Conditions		Min.	Typ.	Max.	Unit
V_{BR}	$T_{amb} = 25°C$	$I_R = 10\mu A$	60			V
V_F * *	$T_{amb} = 25°C$	$I_F = 1mA$			0.41	V
	$T_{amb} = 25°C$	$I_F = 15mA$			1	
I_R * *	$T_{amb} = 25°C$	$V_R = 50V$			0.2	µA

DYNAMIC CHARACTERISTICS

Symbol	Test Conditions			Min.	Typ.	Max.	Unit
C	$T_{amb} = 25°C$	$V_R = 0V$	f = 1MHz			2.2	pF
τ	$T_{amb} = 25°C$	$I_F = 5mA$	Krakauer Method			100	ps

* On infinite heatsink with 4mm lead length
** Pulse test: $t_p \leq 300\mu s$ $\delta < 2\%$.
Matched batches available on request. Test conditions (forward voltage and/or capacitance) according to customer specification.

Fig. 1: Forward current versus forward voltage (typical values).

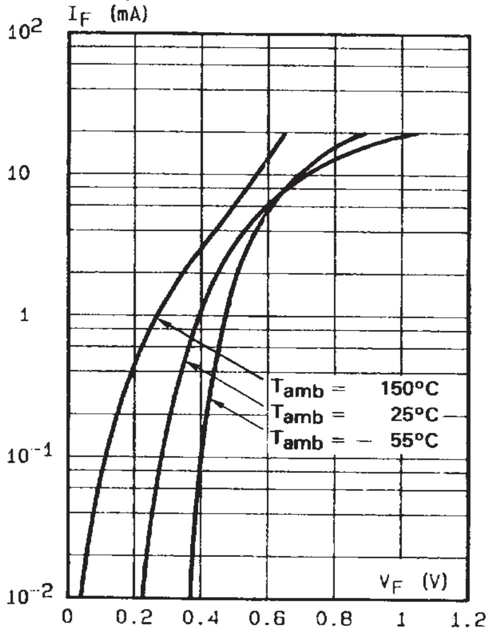


Fig. 2: Capacitance C versus reverse applied voltage V_R (typical values).

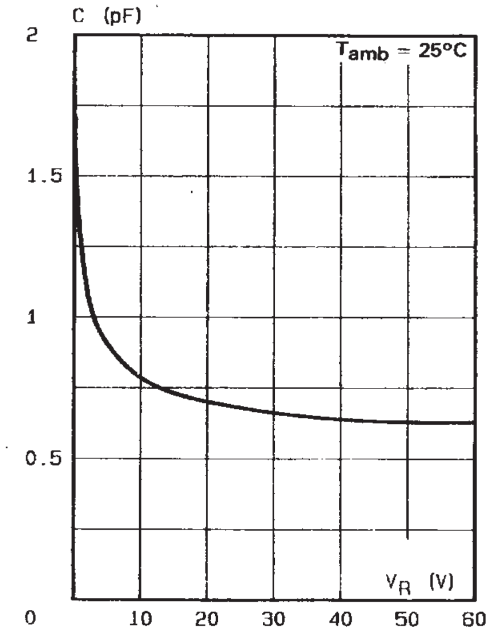


Fig. 3: Reverse current versus ambient temperature.

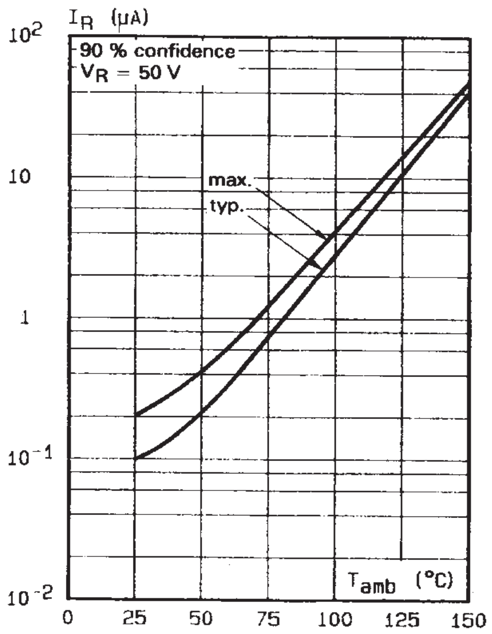
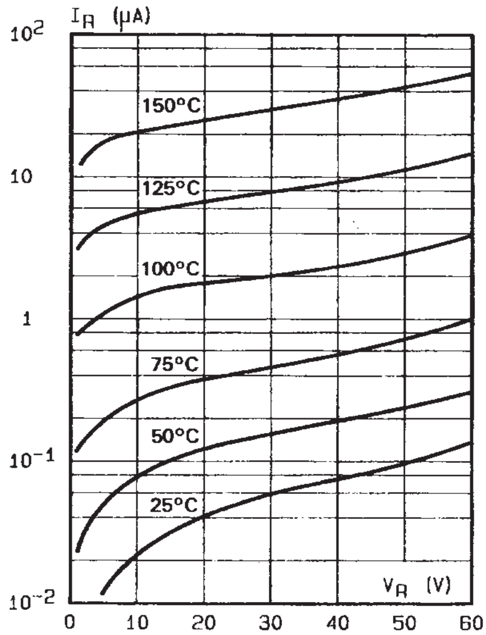
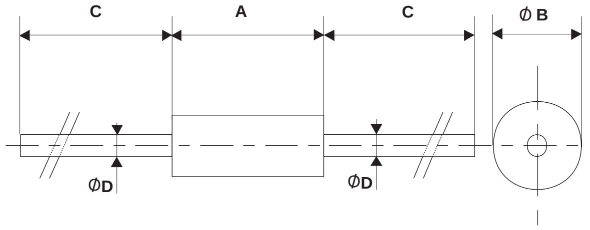


Fig. 4: Reverse current versus continuous reverse voltage (typical values).



PACKAGE MECHANICAL DATA

DO-35



REF.	DIMENSIONS			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	3.05	4.50	0.120	0.177
B	1.53	2.00	0.060	0.079
C	28.00		1.102	
D	0.458	0.558	0.018	0.022

Cooling method : by convection and conduction
Marking: clear, ring at cathode end.
Weight: 0.15g